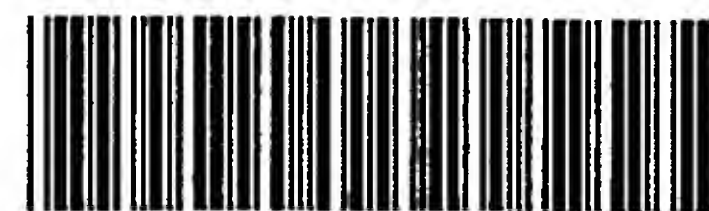# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 591,870 A
Source: IFWO
Date Processed by STIC: 4/2/07

ENTERED

IFWO

<pre>
RAW SEQUENCE LISTING   DATE: 04/02/2007
PATENT APPLICATION: US/10/591,870A   TIME: 13:21:29

          Input Set : A:\PTO.KD.txt
          Output Set: N:\CRF4\04022007\J591870A.raw

   4 <110> APPLICANT: Lanahan, Mike
   6 <120> TITLE OF INVENTION: Self-processing Plants and Plant Parts
   8 <130> FILE REFERENCE: 109846.317
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,870A
C--> 10 <141> CURRENT FILING DATE: 2006-09-07
  10 <150> PRIOR APPLICATION NUMBER: PCT/US04/07182
  11 <151> PRIOR FILING DATE: 2004-03-15
  13 <160> NUMBER OF SEQ ID NOS: 112
  15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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  19 <212> TYPE: PRT
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  22 <220> FEATURE:
  23 <223> OTHER INFORMATION: synthetic
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  29   20   25   30
  30 Gln Lys Ile Pro Glu Trp Tyr Asp Ala Gly Ile Ser Ala Ile Trp Ile
  31   35   40   45
  32 Pro Pro Ala Ser Lys Gly Met Ser Gly Gly Tyr Ser Met Gly Tyr Asp
  33   50   55   60
  34 Pro Tyr Asp Tyr Phe Asp Leu Gly Glu Tyr Tyr Gln Lys Gly Thr Val
  35 65   70   75   80
  36 Glu Thr Arg Phe Gly Ser Lys Gln Glu Leu Ile Asn Met Ile Asn Thr
  37   85   90   95
  38 Ala His Ala Tyr Gly Ile Lys Val Ile Ala Asp Ile Val Ile Asn His
  39   100   105   110
  40 Arg Ala Gly Gly Asp Leu Glu Trp Asn Pro Phe Val Gly Asp Tyr Thr
  41   115   120   125
  42 Trp Thr Asp Phe Ser Lys Val Ala Ser Gly Lys Tyr Thr Ala Asn Tyr
  43   130   135   140
  44 Leu Asp Phe His Pro Asn Glu Leu His Ala Gly Asp Ser Gly Thr Phe
  45 145   150   155   160
  46 Gly Gly Tyr Pro Asp Ile Cys His Asp Lys Ser Trp Asp Gln Tyr Trp
  47   165   170   175
  48 Leu Trp Ala Ser Gln Glu Ser Tyr Ala Ala Tyr Leu Arg Ser Ile Gly
  49   180   185   190
  50 Ile Asp Ala Trp Arg Phe Asp Tyr Val Lys Gly Tyr Gly Ala Trp Val
  51   195   200   205
  52 Val Lys Asp Trp Leu Asn Trp Trp Gly Gly Trp Ala Val Gly Glu Tyr
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53       210                    215                    220
54 Trp Asp Thr Asn Val Asp Ala Leu Leu Asn Trp Ala Tyr Ser Ser Gly
55 225                    230                    235                    240
56 Ala Lys Val Phe Asp Phe Pro Leu Tyr Tyr Lys Met Asp Ala Ala Phe
57                    245                    250                    255
58 Asp Asn Lys Asn Ile Pro Ala Leu Val Glu Ala Leu Lys Asn Gly Gly
59                    260                    265                    270
60 Thr Val Val Ser Arg Asp Pro Phe Lys Ala Val Thr Phe Val Ala Asn
61       275                    280                    285
62 His Asp Thr Asp Ile Ile Trp Asn Lys Tyr Pro Ala Tyr Ala Phe Ile
63       290                    295                    300
64 Leu Thr Tyr Glu Gly Gln Pro Thr Ile Phe Tyr Arg Asp Tyr Glu Glu
65 305                    310                    315                    320
66 Trp Leu Asn Lys Asp Lys Leu Lys Asn Leu Ile Trp Ile His Asp Asn
67                    325                    330                    335
68 Leu Ala Gly Gly Ser Thr Ser Ile Val Tyr Tyr Asp Ser Asp Glu Met
69                    340                    345                    350
70 Ile Phe Val Arg Asn Gly Tyr Gly Ser Lys Pro Gly Leu Ile Thr Tyr
71       355                    360                    365
72 Ile Asn Leu Gly Ser Ser Lys Val Gly Arg Trp Val Tyr Val Pro Lys
73       370                    375                    380
74 Phe Ala Gly Ala Cys Ile His Glu Tyr Thr Gly Asn Leu Gly Gly Trp
75 385                    390                    395                    400
76 Val Asp Lys Tyr Val Tyr Ser Ser Gly Trp Val Tyr Leu Glu Ala Pro
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78 Ala Tyr Asp Pro Ala Asn Gly Gln Tyr Gly Tyr Ser Val Trp Ser Tyr
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87 <213> ORGANISM: Artificial Sequence
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90 <223> OTHER INFORMATION: synthetic
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95 gccggcatct ccgcgatctg gataccgcca gcttccaagg gcatgtccgg gggctactcg 180
96 atgggctacg acccgtacga ctacttcgac ctcggcgagt actaccagaa gggcacggtg 240
97 gagacgcgct cgggtccaa gcaggagctc atcaacatga tcaacacggc gcacgcctac 300
98 ggcatcaagg tcatcgcgga catcgtgatc aaccacaggg ccggcggcga cctggagtgg 360
99 aacccgttcg tcggcgacta cacctggacg gacttctcca aggtcgcctc cggcaagtac 420
100 accgccaact acctcgactt ccaccccaac gagctgcacg cgggcgactc cggcacgttc 480
101 ggcggctacc cggacatctg ccacgacaag tcctgggacc agtactggct ctgggcctcg 540
102 caggagtcct acgcggccta cctgcgctcc atcggcatcg acgcgtggcg cttcgactac 600
103 gtcaagggct acggggcctg ggtggtcaag gactggctca ctggtggggg cggctgggcg 660
104 gtgggcgagt actgggacac caacgtcgac gcgctgctca ctgggcctac tcctccggc 720
105 gccaaggtgt cgacttcccc cctgtactac aagatggacg cggccttcga caacaagaac 780
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Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\04022007\J591870A.raw**

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106 atcccggcgc tcgtcgaggc cctgaagaac ggcggcacgg tggtctcccg cgacccgttc 840
107 aaggccgtga ccttcgtcgc caaccacgac acggacatca tctggaacaa gtacccggcg 900
108 tacgccttca tcctcaccta cgagggccag cccacgatct tctaccgcga ctacgaggag 960
109 tggctgaaca aggacaagct caagaacctg atctggattc acgacaacct cgcgggcggc 1020
110 tccactagta tcgtgtacta cgactccgac gagatgatct tcgtccgcaa cggctacggc 1080
111 tccaagcccg gcctgatcac gtacatcaac ctgggctcct ccaaggtggg ccgctgggtg 1140
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113 gtggacaagt acgtgtactc ctccggctgg gtctacctgg aggccccggc ctacgacccc 1260
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118 <212> TYPE: PRT
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122 <223> OTHER INFORMATION: synthetic
124 <400> SEQUENCE: 3

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128              20                  25                  30
129 Lys Val Gly Ile Ile Val Arg Leu Asn Glu Trp Gln Ala Lys Asp Val
130          35                  40                  45
131 Ala Lys Asp Arg Phe Ile Glu Ile Lys Asp Gly Lys Ala Glu Val Trp
132     50                  55                  60
133 Ile Leu Gln Gly Val Glu Glu Ile Phe Tyr Glu Lys Pro Asp Thr Ser
134 65                  70                  75                  80
135 Pro Arg Ile Phe Phe Ala Gln Ala Arg Ser Asn Lys Val Ile Glu Ala
136              85                  90                  95
137 Phe Leu Thr Asn Pro Val Asp Thr Lys Lys Lys Glu Leu Phe Lys Val
138              100                 105                 110
139 Thr Val Asp Gly Lys Glu Ile Pro Val Ser Arg Val Glu Lys Ala Asp
140          115                 120                 125
141 Pro Thr Asp Ile Asp Val Thr Asn Tyr Val Arg Ile Val Leu Ser Glu
142     130                 135                 140
143 Ser Leu Lys Glu Glu Asp Leu Arg Lys Asp Val Glu Leu Ile Ile Glu
144 145                 150                 155                 160
145 Gly Tyr Lys Pro Ala Arg Val Ile Met Met Glu Ile Leu Asp Asp Tyr
146              165                 170                 175
147 Tyr Tyr Asp Gly Glu Leu Gly Ala Val Tyr Ser Pro Glu Lys Thr Ile
148              180                 185                 190
149 Phe Arg Val Trp Ser Pro Val Ser Lys Trp Val Lys Val Leu Leu Phe
150          195                 200                 205
151 Lys Asn Gly Glu Asp Thr Glu Pro Tyr Gln Val Val Asn Met Glu Tyr
152     210                 215                 220
153 Lys Gly Asn Gly Val Trp Glu Ala Val Val Glu Gly Asp Leu Asp Gly
154 225                 230                 235                 240
155 Val Phe Tyr Leu Tyr Gln Leu Glu Asn Tyr Gly Lys Ile Arg Thr Thr
156              245                 250                 255
157 Val Asp Pro Tyr Ser Lys Ala Val Tyr Ala Asn Asn Gln Glu Ser Ala
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158                 260                   265                    270
159 Val Val Asn Leu Ala Arg Thr Asn Pro Glu Gly Trp Glu Asn Asp Arg
160         275                   280                    285
161 Gly Pro Lys Ile Glu Gly Tyr Glu Asp Ala Ile Ile Tyr Glu Ile His
162     290                   295                    300
163 Ile Ala Asp Ile Thr Gly Leu Glu Asn Ser Gly Val Lys Asn Lys Gly
164 305                   310                    315                    320
165 Leu Tyr Leu Gly Leu Thr Glu Glu Asn Thr Lys Gly Pro Gly Gly Val
166         325                   330                    335
167 Thr Thr Gly Leu Ser His Leu Val Glu Leu Gly Val Thr His Val His
168         340                   345                    350
169 Ile Leu Pro Phe Phe Asp Phe Tyr Thr Gly Asp Glu Leu Asp Lys Asp
170         355                   360                    365
171 Phe Glu Lys Tyr Tyr Asn Trp Gly Tyr Asp Pro Tyr Leu Phe Met Val
172     370                   375                    380
173 Pro Glu Gly Arg Tyr Ser Thr Asp Pro Lys Asn Pro His Thr Arg Ile
174 385                   390                    395                    400
175 Arg Glu Val Lys Glu Met Val Lys Ala Leu His Lys His Gly Ile Gly
176         405                   410                    415
177 Val Ile Met Asp Met Val Phe Pro His Thr Tyr Gly Ile Gly Glu Leu
178         420                   425                    430
179 Ser Ala Phe Asp Gln Thr Val Pro Tyr Tyr Phe Tyr Arg Ile Asp Lys
180         435                   440                    445
181 Thr Gly Ala Tyr Leu Asn Glu Ser Gly Cys Gly Asn Val Ile Ala Ser
182     450                   455                    460
183 Glu Arg Pro Met Met Arg Lys Phe Ile Val Asp Thr Val Thr Tyr Trp
184 465                   470                    475                    480
185 Val Lys Glu Tyr His Ile Asp Gly Phe Arg Phe Asp Gln Met Gly Leu
186         485                   490                    495
187 Ile Asp Lys Lys Thr Met Leu Glu Val Glu Arg Ala Leu His Lys Ile
188         500                   505                    510
189 Asp Pro Thr Ile Ile Leu Tyr Gly Glu Pro Trp Gly Gly Trp Gly Ala
190         515                   520                    525
191 Pro Ile Arg Phe Gly Lys Ser Asp Val Ala Gly Thr His Val Ala Ala
192     530                   535                    540
193 Phe Asn Asp Glu Phe Arg Asp Ala Ile Arg Gly Ser Val Phe Asn Pro
194 545                   550                    555                    560
195 Ser Val Lys Gly Phe Val Met Gly Gly Tyr Gly Lys Glu Thr Lys Ile
196         565                   570                    575
197 Lys Arg Gly Val Val Gly Ser Ile Asn Tyr Asp Gly Lys Leu Ile Lys
198         580                   585                    590
199 Ser Phe Ala Leu Asp Pro Glu Glu Thr Ile Asn Tyr Ala Ala Cys His
200         595                   600                    605
201 Asp Asn His Thr Leu Trp Asp Lys Asn Tyr Leu Ala Ala Lys Ala Asp
202     610                   615                    620
203 Lys Lys Lys Glu Trp Thr Glu Glu Glu Leu Lys Asn Ala Gln Lys Leu
204 625                   630                    635                    640
205 Ala Gly Ala Ile Leu Leu Thr Ser Gln Gly Val Pro Phe Leu His Gly
206         645                   650                    655
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210         675             680             685
211 Ile Asp Val Phe Asn Tyr His Lys Gly Leu Ile Lys Leu Arg Lys Glu
212     690             695             700
213 His Pro Ala Phe Arg Leu Lys Asn Ala Glu Glu Ile Lys Lys His Leu
214 705             710             715             720
215 Glu Phe Leu Pro Gly Gly Arg Arg Ile Val Ala Phe Met Leu Lys Asp
216             725             730             735
217 His Ala Gly Gly Asp Pro Trp Lys Asp Ile Val Val Ile Tyr Asn Gly
218         740             745             750
219 Asn Leu Glu Lys Thr Thr Tyr Lys Leu Pro Glu Gly Lys Trp Asn Val
220         755             760             765
221 Val Val Asn Ser Gln Lys Ala Gly Thr Glu Val Ile Glu Thr Val Glu
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238 aacgagtggc aggcgaagga cgtggccaag gaccgcttca tcgagatcaa ggacggcaag 180
239 gccgaggtgt ggatactcca gggcgtggag gagatcttct acgagaagcc ggacacctcc 240
240 ccgcgcatct tcttcgccca ggcccgctcc aacaaggtga tcgaggcctt cctcaccaac 300
241 ccggtggaca ccaagaagaa ggagctgttc aaggtgaccg tcgacggcaa ggagatcccg 360
242 gtgtcccgcg tggagaaggc cgacccgacc gacatcgacg tgaccaacta cgtgcgcatc 420
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246 aagtgggtga aggtgctcct cttcaagaac ggcgaggaca ccgagccgta ccaggtggtg 660
247 aacatggagt acaagggcaa cggcgtgtgg gaggccgtgg tggagggcga cctcgacggc 720
248 gtgttctacc tctaccagct ggagaactac ggcaagatcc gcaccaccgt ggacccgtac 780
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VERIFICATION SUMMARY   DATE: 04/02/2007
PATENT APPLICATION: **US/10/591,870A**   TIME: 13:21:30

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\04022007\J591870A.raw**

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3247 M:283 W: Missing Blank Line separator, <220> field identifier